LineUp With Math™ Alignment
Academic Standards: Mathematics

Number and Operation

Content Standard 1.0 The student will develop number and operation sense needed to represent numbers and number relationships verbally, symbolically, and graphically and to compute fluently and make reasonable estimates in problem solving.

Learning Expectations and Accomplishments	***LineUp With Math™* Activities**
5.1.3 Solve problems, compute fluently, and make reasonable estimates. h. solve real-world problems using decimals, fractions, and percents.	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control. --Use percent relationships to resolve distance, rate, time conflicts in air traffic control.

Geometry

Content Standard 3.0 The student will develop an understanding of geometric concepts and relationships as the basis for geometric modeling and reasoning to solve problems involving one-, two-, and three-dimensional figures.

Learning Expectations and Accomplishments	***LineUp With Math™* Activities**
5.3.4 Use visualization, spatial reasoning, and geometric modeling to solve problems. b. create and describe mental images of objects, patterns, and paths; d. use visualization and spatial reasoning to solve real-world problems.	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. -- Predict and plot the relative motion of two or more airplanes on given paths.

Measurement

Content Standard 4.0 The student will become familiar with the units and processes of measurement in order to use a variety of tools, techniques, and formulas to determine and to estimate measurements in mathematical and real-world problems.

Learning Expectations and Accomplishments	***LineUp With Math™* Activities**
5.4.1 Understand measurable attributes of objects and the units, systems, and processes of measurement. a. demonstrate understanding of the concepts of length, perimeter, circumference, area, weight, capacity, volume, elapsed time, and angle measure;	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

5.4.2 Apply appropriate techniques, tools, and formulas to determine measurements. a. solve real-world problems involving measurement and elapsed time;	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.